## **CLAIMS**

The current claim set of the application is presented below. Indications as to the status of the claims ("original", "currently amended", "canceled", "new", etc.) appear in parentheses after the claim number. Deletions are identified with double brackets and new text is identified with underlining.

## 1-23 (Canceled)

- 24. (Currently Amended) A medical lead system comprising a medical lead for electrical stimulation or sensing, the medical lead comprising:
- a generally round or tubular lead body having proximal and distal ends, and at least one electrical conductor extending between the proximal and distal ends;
- a connector on the proximal end of the lead body in electrical communication with the electrical conductor; and
- a generally flat paddle on the distal end of the lead body having an electrode array comprising at least one electrode in electrical communication with the electrical conductor, the paddle having proximal and distal ends and a length extending between the proximal and distal ends, the electrode array being displaced along the length of the paddle toward the distal end, whereby the electrode array may be advanced into position for electrical stimulation or sensing with the flat paddle extending through connective tissue, said connective tissue including [[such as the]] ligamentum flavum, the flat paddle having opposite major surfaces and electrode apertures in one of the major surfaces, and the electrode array comprises a plurality of electrodes exposed through electrode apertures; and

an anchor adapted for clamping the flat paddle and anchoring [[it]] the flat paddle to connective tissue, [[such as the ligamentum flavum,]] the anchor comprising two clamping jaws adapted to clamp the major surfaces of the flat paddle therebetween, at least one of the clamping jaws is provided with at least one rib adapted to engage the flat paddle and retain it in position.

- 25. (Previously presented) The medical lead system of claim 24 in which a plurality of ribs are provided on at least one clamping jaw to engage the flat paddle and retain it in position.
- 26. (Previously presented) The medical lead system of claim 25 in which the clamping jaws are separable, the clamping jaws being provided with mating knobs and cavities for attaching the clamping jaws together.
- 27. (Original) The medical lead system of claim 23 in which the clamping jaws are pivotably connected to one another for movement between: a closed position for clamping the major surfaces of the paddle therebetween; and an open position in which the anchor may be moved relative to the paddle.

## 28. - 34. (Canceled)

35. (Currently Amended) A medical lead system for electrical stimulation or sensing, the medical lead system comprising:

a medical lead comprising: a generally round or tubular lead body having proximal and distal ends, and at least one electrical conductor extending between the proximal and distal ends;

a connector on the proximal end of the lead body in electrical communication with the electrical conductor; and

a generally flat paddle on the distal end of the lead body having an electrode array comprising at least one electrode in electrical communication with the electrical conductor, the paddle having proximal and distal ends and a length extending between the proximal and distal ends, the electrode array being displaced along the length of the paddle toward the distal end;

an anchor configured for attachment to the paddle to anchor the paddle relative to biological tissue; and [[The medical lead system of claim 34]]

wherein [[in which]] the flat paddle has opposite major surfaces, and the anchor comprises two clamping jaws adapted to clamp the major surfaces of the flat paddle therebetween.

- 36. (Original) The medical lead system of claim 35 in which at least one of the clamping arms is provided with at least one rib adapted to engage the flat paddle and retain it in position.
- 37. (Currently Amended) The medical lead system of claim 35 [[36]] in which a plurality of ribs are provided on at least one clamping arm to engage the flat paddle and retain it in position.
- 38. (Original) The medical lead system of claim 37 in which the clamping arms are separable, the clamping arms being provided with mating knobs and cavities for attaching the clamping arms together.
- 39. (Original) The medical lead system of claim 35 in which the clamping jaws are pivotably connected to one another for movement between: a closed position for clamping the major surfaces of the paddle therebetween; and an open position in which the anchor may be moved relative to the paddle.
- 40. (Withdrawn) A method of use of a medical lead having a generally flat paddle with an electrode array comprising at least one electrode, the paddle having proximal and distal ends and a length extending between the proximal and distal ends, the electrode array being displaced along the length of the paddle toward the distal end, the method comprising:

percutaneously introducing distal end of the paddle generally anteriorly through the ligamentum flavum into an epidural space of a patient through a needle with the proximal end of the paddle remaining on the posterior side of the ligamentum flavum; and

anchoring the paddle to the posterior side of the ligamentum flavum.

- 41. (Withdrawn) The method of claim 40 wherein the step of anchoring the paddle to the posterior side of the ligamentum flavum comprises attaching an anchor to the paddle of the medical lead.
- 42. (Withdrawn) The method of claim 40 in which the paddle has opposite major surfaces, and the anchor comprises two clamping jaws, the step of attaching an anchor to the paddle of the medical lead comprising clamping the major surfaces of the paddle between the clamping jaws.
- 43. (Withdrawn) The method of claim 42 in which at least one of the clamping arms is provided with at least one rib, the step of clamping the major surfaces of the flat paddle between the clamping jaws including engaging at least one of the major surfaces of the paddle with the rib to retain the paddle in position relative to the anchor.
- 44. (Withdrawn) The method of claim 43 in which a plurality of ribs are provided on at least one clamping arm, the step of engaging at least one of the major surfaces of the paddle with the rib to retain the paddle in position relative to the anchor including engaging at least one of the major surfaces of the paddle with the plurality of ribs.
- 45. (Withdrawn) The method of claim 41 in which the clamping arms are separable, the clamping arms being provided with mating knobs and cavities for attaching the clamping arms together, the step of attaching an anchor to the paddle of the medical lead including mating the mating knobs and cavities of the clamping arms together to attach the clamping arms together.
- 46. (Withdrawn) The method of claim 41 in which the clamping jaws are pivotably connected to one another, the step of attaching the anchor to the paddle including pivoting the clamping jaws from an nopen position in which the anchor may be moved relative to the paddle to a closed position for clamping the major surfaces of the paddle therebetween.

- 47. (Withdrawn) The method of claim 40 further comprising removing the needle while leaving the lead in position.
- 48. (Withdrawn) The method of claim 47 wherein the needle has a lumen having a continuous oblong cross section adapted to receive the paddle of the medical lead.
- 49. (Withdrawn) The method of claim 40 further comprising repositioning the paddle.
- 50. (Withdrawn) The method of claim 40 further comprising explanting the medical lead without cutting through or dissecting the ligamentum flavum.
- 51. (Withdrawn) A method of use of a medical lead having a generally flat paddle with an electrode array comprising at least one electrode, the paddle having proximal and distal ends and a length extending between the proximal and distal ends, the electrode array being displaced along the length of the paddle toward the distal end, the method comprising: percutaneously introducing distal end of the paddle with an introducer needle generally through connective tissue into a desired stimulation or sensing site in a patient with the proximal end of the paddle left extending out from the connective tissue; and anchoring the paddle to the connective tissue.
- 52. (Withdrawn) The method of claim 51 further comprising removing the needle while leaving the lead in position.
- 53. (Withdrawn) The method of claim 52 wherein the needle has a lumen having a continuous oblong cross section adapted to receive the paddle of the medical lead.
- 54. (Withdrawn) The method of claim 53 further comprising repositioning the paddle.

- 55. (Withdrawn) The method of claim 51 further comprising explanting the medical lead without cutting through or dissecting the connective tissue.
  - 56. (New) A medical lead system comprising:

a medical lead for electrical stimulation or sensing, the medical lead comprising:

a generally round or tubular lead body having proximal and distal ends, and at least one electrical conductor extending between the proximal and distal ends;

a connector on the proximal end of the lead body in electrical communication with the electrical conductor;

a generally flat paddle on the distal end of the lead body having an electrode array comprising at least one electrode in electrical communication with the electrical conductor, the paddle having proximal and distal ends and a length extending between the proximal and distal ends, the electrode array being offset along the length of the paddle toward the distal end such that the portion of the flat paddle proximal of the electrode array has a length of at least 1-1/2 inches, whereby the electrode array may be advanced into position for electrical stimulation or sensing with the portion of the flat paddle proximal of the electrode array extending through connective tissue, such as the ligamentum flavum;

wherein the flat paddle has opposite major surfaces and electrode apertures in one of the major surfaces, and the electrode array comprises a plurality of electrodes exposed through electrode apertures: and

an anchor adapted for clamping the flat paddle and anchoring it to connective tissue, such as the ligamentum flavum, wherein the anchor comprises two clamping jaws adapted to clamp the major surfaces of the flat paddle therebetween.

57. (New) The medical lead system of claim 56 in which the clamping jaws are pivotably connected to one another for movement between: a closed position for clamping the major surfaces of the paddle therebetween; and an open position in which the anchor may be moved relative to the paddle.